

U.S. NUCLEAR REGULATORY COMMISSION
OFFICE OF INSPECTION AND ENFORCEMENT

REGION III

Report No. 50-483/81-07

Docket No. 50-483

License No. CPPR-139

Licensee: Union Electric Company
P. O. Box 149
St. Louis, MO 63166

Facility: Callaway, Unit 1

Inspection At: Callaway Site, Callaway County, MO

Inspection Conducted: March 2-31, 1981

Inspector: *W. A. Hansen*

4-1-81

Approved By: J. E. Konklin
Projects Section 2A

J. E. Konklin

4/7/81.

Inspection Summary

Inspection on March 2-31, 1981 (Report No. 50-483/81-07)

Areas Inspected: Routine inspection by the IE Regional Resident Inspector (RI) of safety-related construction activities including protection of the reactor vessel and other components of the nuclear steam system supplier (NSSS); welding of safety-related piping systems; electrical work; non-destructive testing; concrete placement; and post tensioning work on the containment dome. This inspection involved a total of 39 inspector hours onsite by one NRC inspector including 6 inspector hours onsite during off-shifts.

Results: No items of noncompliance or deviations were identified.

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DETAILS

Persons Contacted

Union Electric Company (UE)

- *W. H. Weber, Manager Nuclear Construction
- M. E. Doyne, General Superintendent, Callaway Construction
- *R. L. Powers, Superintendent of Site Quality Assurance
- *J. Laux, Supervisory Engineer Quality Assurance Construction
- *H. H. Hess, Quality Assurance Consultant
- S. M. Hogan, Assistant Quality Assurance Engineer
- R. Veatch, Assistant Quality Assurance Engineer

Daniel International Corporation (Daniel)

- *H. J. Starr, Project Manager
- W. L. Sykora, Assistant Project Engineer

The inspector also contacted and interviewed other licensee and contractor personnel, including craftsmen, QA/QC, technical and engineering staff members.

*Denotes those attending at least one of the exit meetings.

Functional or Program Areas Inspected

1. Plant Tours

One or more plant areas were toured several times during the reporting period to observe general construction practices; area cleanliness and storage condition of equipment, piping, and electrical cable.

No items of noncompliance or deviations were identified.

2. Concrete Placement

- a. During the reporting period, concrete placement 26261W22 (Pressurizer Control Room Walls) was observed.

During the placement the following conditions were noted.

- (1) The forms were secure, leak tight, and had been wetted prior to the placement.
- (2) The preplacement inspection had been completed and was in order.

- (3) Quality Control inspectors were assigned to the placement crew in addition to those assigned to perform periodic concrete testing.
- (4) Concrete testing was performed at the required frequencies.
- (5) Adequate numbers of crews and personnel were assigned to make the placement.
- (6) The placement was satisfactory.

The inspector observed the moist curing of concrete and grout test cylinders at the concrete test lab. The test specimens were in the proper curing atmosphere.

No items of noncompliance or deviations were identified.

3. Piping System Nondestructive Testing

- a. During the reporting period the inspector observed nondestructive testing (Liquid Penetrant) of piping end preparations for welds BB02-FW-02 and BB02-FW-03.

- (1) The surface of the weld was satisfactory for the performance of liquid penetrant examination.
- (2) The technique observed to be used was satisfactory.

No items of noncompliance or deviations were identified.

4. Nuclear Steam System Supplier (NSSS) Equipment

The inspector observed the in-place storage and protection of NSSS components and piping. The piping assemblies, reactor vessel internals, and reactor vessel head were properly stored and protected.

No items of noncompliance or deviations were identified.

5. Electrical Cable Installation

- a. During the reporting period, the inspector observed work including installation, handling, and protection of electrical cables. Specifically, work associated with the electrical cables listed below was observed.

- (1) Cables 4GGY09BD
4GLY16AD
45AZ02BB
45AZ02EB

- b. The cable was pulled from coiling points into control room electrical cabinets. It was observed that: (1) Pull cards were in use, (2) the cables were identified, (3) Quality Control inspections were performed and Quality Control personnel witnessed the pull.

No items of noncompliance or deviations were identified.

6. Fabrications of Safety-Related Piping Systems

a. During the reporting period, the inspector observed work including handling, protection, inspection, and welding of safety-related piping systems.

(1) Chemical and Volume Control System

2B9-10-FW081

(2) Component Cooling Water System

2E6-07-FW19

2EG-09-F034

(3) Liquid Radwaste System

2HB-24-FW081C

For each of these welds one or more of the following fabrication activities was observed. Handling and protection of piping and partially completed welds was satisfactory. Purge gas was correctly used. The weld area was free of any grease or particles. The joint fit-up dimensions were within procedural requirements and the welders were certified as qualified for the procedure specified to be used for welding the pipe joint.

7. Containment Structure Prestressing

a. During the reporting period the inspector observed the handling and installation of a verticle U tendon, observed anchorage fabrication, reviewed the work procedures and assisted a regionally based inspector in review of this work area.

(1) Tendon U-23 was observed as it was installed. The tendon was free of nicks and corrosion, contractor inspection was performed as required by approved procedures. During installation one wire was kinked and was identified by a Nonconformance Identification Tag.

(2) The installation of button heads on tendon U-68 was observed. The heads were checked for size, concentricity and the presence of unacceptable cracks and tears.

(3) The review of work procedures and Quality Control requirements, and the activity of the regionally based inspector will be reported in NRC Report 50-483-81-06.

No items of noncompliance or deviations were identified.

Other Activities

The inspector assisted J. Foster and W. Key in an investigation of allegations concerning piping. The results of the investigation are contained in NRC Report 50-483/81-04.

The inspector assisted J. Foster in an investigation of allegations concerning electrical quality control. The results of the investigation are contained in NRC Report 50-483/81-08.

The inspector attended an Atomic Safety and Licensing Board Panel Meeting on March 24, 1981.

Exit Meetings

The resident inspector attended exit meetings conducted by RIII inspectors on March 6, 20, and 27, 1981.

The inspector met with Licensee representatives (denoted under Persons Contacted) on March 13 and 31, 1981 and other occasions throughout the month. The inspector summarized the scope and findings of the inspections performed. The Licensee representatives acknowledged the findings reported in previous paragraphs.